

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

Manual No.: **5-21000-OPS-FO**  
Procedure No.: **Table of Contents; Rev 47**  
Page: **1 of 4**  
Effective Date: **05/12/93**  
Organization: **Environmental Management**

**THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:**

**VOLUME I: FIELD OPERATIONS (FO)  
VOLUME II: GROUNDWATER (GW)  
VOLUME III: GEOTECHNICAL (GT)  
VOLUME IV: SURFACE WATER (SW)  
VOLUME V: ECOLOGY (EE)  
VOLUME VI: AIR (AP)**

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FOR VOLUME I: FIELD OPERATIONS**

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FO.01	Air Monitoring and Dust Control	2	05/12/92
FO.02	Transmittal of Field QA Records	3	05/22/92
*DCN 93.01	Working Base Maps	3	05/12/93
FO.03	General Equipment Decontamination	2	05/12/92
DCN 92.01	EXPIRED (Clarification of Decontamination)	2	Expired
DCN 92.02	Update to Clarification of Decontamination	2	12/12/92
DCN 93.01	CPT Rods	2	02/16/93
FO.04	Heavy Equipment Decontamination	2	05/12/92
DCN 92.01	Expired	1	Expired
DCN 92.02	Expired	1	Expired
DCN 92.03	Consistency Change	1	09/18/92
DCN 92.04	Update to Clarification of Decontamination	2	12/17/92
FO.05	Handling of Purge and Development Water	2	05/12/92
FO.06	Handling of Personal Protective Equipment	2	05/12/92
DCN 92.01	Monitoring Change	2	09/18/92
DCN 93.01	Plastic Bagging Modification	2	02/17/93

**ADMIN RECORD**

**DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991**

R. DW - 00608

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FO.07	Handling of Decontamination Water and Wash Water	2	05/12/92
DCN 92.01	Consistency Change	2	09/18/92
FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
DCN 92.04	EXPIRED (Clarification of Drill Cuttings)	2	Expired
DCN 92.05	EXPIRED (Handling of Drilling Fluids and Cuttings)	2	Expired
DCN 92.06	Clarification of Responsibility	2	09/09/92
DCN 92.07	Elimination of Drilling Requirements on Earthen Dams	2	09/10/92
DCN 92.08	Consistency Change	2	09/18/92
DCN 92.09	Clarification of Augering Technique for OU-6	2	10/28/92
DCN 92.10	Improve Tracking of Samples	2	12/07/92
FO.09	Handling of Residual Samples	2	05/12/92
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	2	05/12/92
DCN 92.03	EXPIRED (Replaced by DCN 93.01 dated 2/10/93)	2	Expired
DCN 92.04	EXPIRED (Decrease in Weekly Inspections of Gray Drums)	3	Expired
DCN 92.05	Requirement Reduction	2	09/16/92
DCN 92.06	Improve Accountability	2	10/15/92
DCN 92.07	Expired	2	Expired
DCN 92.08	Drum Log F or M Change	2	12/03/92
DCN 93.01	Clarification on Drums (REPLACES DCN 92.03)	2	02/10/93
DCN 93.02	Renewal (DCN 92.07)	2	03/17/93
*DCN 93.03	Number of Drums per Pallet	2	05/11/93
FO.11	Field Communications	2	05/12/92
FO.12	Decontamination Facility Operations	2	05/12/92
DCN 93.01	Tank Inspection Log	2	04/13/93

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FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	2	05/12/92
DCN 92.01	Chain of Custody	2	07/27/92
DCN 92.02	Improve Tracking of Samples	2	12/08/93
DCN 93.01	Chain of Custody Record	2	02/10/93
FO.14	Field Data Management	2	05/12/92
DCN 92.01	EXPIRED (Update Bottle Codes and Lab Codes to Current Status)	2	Expired
DCN 92.02	Clarification of Biological Locations (07/08/92- Extended)	2	11/20/92
DCN 92.03	Changes in Procedures (07/08/92 - Extended)	2	11/20/92
DCN 92.04	Expired	2	Expired
DCN 92.05	Update QA/QC Code List	2	09/28/92
DCN 92.06	Clarify Description	2	09/28/92
DCN 92.07	Update Bottle Code List	2	09/28/92
DCN 92.08	Add Sub-Contractor Abbreviations	2	10/14/92
DCN 92.09	Major Form Revision	2	11/03/92
DCN 92.10	Elimination of Non-Required Section	2	11/10/92
DCN 92.11	Update Bottle Code & Lab Codes to Current Status	2	12/09/92
DCN 93.01	New Codes	2	01/15/93
DCN 93.02	New Samplers and New Media	2	01/15/93
DCN 93.03	Field Data for RFEDS	2	02/10/93
DCN 93.04	RFEDS Back-up	2	03/18/93
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92
FO.16	Field Radiological Measurements	2	05/12/92
DCN 92.04	EXPIRED (Seismic Lines)	1	Expired
DCN 92.05	Addition of HPGe	2	11/24/92
DCN 93.01	FIDLER Surveys	2	01/15/93
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added

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FO.18	Environmental Sample Radioactivity	1	05/12/92
DCN 93.01	Content Screening Clarification of Procedure	1	01/11/93
FO.19	Base Laboratory Work	2	05/12/92

**ENVIRONMENTAL MANAGEMENT  
 DOCUMENT CHANGE NOTICE (DCN)**

Title <b>Transmittal of Field QA Records</b>				Date <i>dw</i> <b>5-12-93</b>		DCN Number <b>93.01 dw</b>	
Expires <b>5-12-94 dw</b> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Scope Limitation: <u>None</u>							
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)				
1	6 of 6	Section 8.0	Re-number to Section 9.0				
2	6 of 6	Section 8.0	<p>Add this <u>new</u> section:</p> <p><b>8.0 WORKING BASE MAPS</b></p> <p>The subcontracting site manager will maintain working maps at the field base location. All actual, individual sampling locations will be reflected on the maps; several different maps with various scales may be necessary to capture all of the individual sampling points. These maps will be updated with handwritten notations as sampling progresses.</p> <p>All working maps used to indicate actual field sampling locations constitute QA records and will be archived according to this procedure following their use in the field.</p> <p style="text-align: center;"><b>DOCUMENT CLASSIFICATION REVIEW WAIVER          PER R.B. HOFFMAN, CLASSIFICATION OFFICE          JUNE 11, 1991</b></p>				
<p>Justification (Reason for change - Provide numbers to reference corresponding items above.)</p> <p>Item 1: N/A</p> <p>Item 2: Working maps must be specifically addressed in the procedures based on their importance for sample data traceability.</p>							
Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>[Signature]</i>	GAPM	X	5/11/93	<i>[Signature]</i>	User	X	4/29/93
<i>[Signature]</i>	FOM	X	5-3-93	<i>[Signature]</i>	EQS		4/14/93
				<i>[Signature]</i>	USEM		4/30/93
				<i>[Signature]</i>	R+D		5/10/93
Approval of Responsible Manager <i>[Signature]</i>			Date <b>5/5/93</b>	Is Posting required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, by what date upon receipt	
						Date posted	

**MAY 11 1993**

**ENVIRONMENTAL MANAGEMENT  
DOCUMENT CHANGE NOTICE (DCN)**

Procedure Number 5-21000-OPS.FO 10 (Rev. 2)

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Title Receiving, Labeling or Handling Environmental Material Containers	Date <del>03/30/93</del> 5-11-93 <sup>SRD</sup> 5/3/93	DCN Number 93.03 <sup>SRD</sup>
Expires <del>03/30/94</del> 5-11-93 <sup>SRD</sup> 5/3/93		Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Scope Limitation <del>OUT</del> <sup>SNP</sup> None		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Spaces)
1	15 of 19	7.2.2 paragraph 2, bullet 4 <sup>ALL</sup> 5/3/93	Replace "Gray drums will be placed on leveled wood pallets containing a maximum of 3 drums at the drilling site." with "Gray drums...containing a maximum of (3) 55-gallon drums or (4) 30-gallon drums at the drilling site."

Justification (Reason for Change - Provide Numbers to Reference Corresponding Items Above)

- 1 The (3) drum limit per pallet is intended to safely accomodate 55-gallon drums. (4) 30-gallon drums can be accomodated safely on a pallet and decrease the need for extra pallets.

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PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	5/6/93		User	X	5/3/93
	EOM	X	5-3-93		EQS		5/3/93
					User	X	5/5/93
Approval of Responsible Manager 		Date 5/6/93		Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? upon receipt	
						Date Posted	